

# United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,218	12/21/2001	Carlton J. Sparrell	BCS03851 3464	
43471 GENERAL IN	7590 05/03/200 STRUMENT CORPOR	7 RATION DBA THE CONNECTED	EXAMINER	
HOME SOLUTIONS BUSINESS OF MOTOROLA, INC.			DANG, HUNG Q	
	HORSHAM, PA 19044		ART UNIT	PAPER NUMBER
			2621	
			MAIL DATE	DELIVERY MODE
			05/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/032,218	SPARRELL ET AL.		
Office Action Summary	Examiner	Art Unit		
	Hung Q. Dang	2621		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was preparable to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirn vill apply and will expire SIX (6) MONTHS from cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
<ol> <li>Responsive to communication(s) filed on <u>03 Octors</u></li> <li>This action is <b>FINAL</b>. 2b) ∑ This</li> <li>Since this application is in condition for alloware closed in accordance with the practice under E</li> </ol>	action is non-final. nce except for formal matters, pro	•		
·	x parte Quayle, 1955 C.D. 11, 45			
Disposition of Claims		•		
4) ☑ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	· · · ·		
Application Papers				
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 21 December 2001 is/an Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	re: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119		•		
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 09/17/2003	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte		

Art Unit: 2621

#### **DETAILED ACTION**

### Reexamination

Upon Applicant's request for appeal, the finality of the previous office action is withdrawn. However, new ground(s) of rejection are applied.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 6-12, 14-17, and 19-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Inoue (US Patent 7,123,813).

Regarding claim 1, Inoue discloses a digital video recording and playback method adapted for "live-pause" recording and playback (column 2, lines 7-11), said method comprising: receiving a first program (column 2, lines 25-30); receiving a program guide (column 4, lines 5-20) comprising program length information about the first program (specified by "broadcast time" in column 5, lines 1-7 and "broadcast end time" in column 6, lines 25-30); converting buffer memory size into a corresponding program length information, which is equivalent to converting said program length information into a corresponding buffer memory size (column 7, lines 16-24); establishing a buffer memory matching the buffer memory size determined in the

Art Unit: 2621

converting step (column 8, lines 15-34; Fig. 4; column 8, line 65 – column 9, line 22); recording the first program in the buffer memory established in the establishing step, wherein said buffer memory size matches the size needed to recording the first program (column 6, lines 47-48); and playing back a portion of the recorded first program during a "live-pause" operation (column 2, lines 8-12).

Regarding claim 2, Inoue also discloses said program length information comprises the scheduled end time of the first program (column 6, lines 25-30).

Regarding claim 3, Inoue also discloses said program length information comprises the scheduled start time of the first program (column 5, lines 1-7).

Regarding claim 4, Inoue also discloses at the direction of a user, designating the first program stored in said buffer memory for long-term storage under the view that the hard disk in the hard disk drive (HDD) () can be used as buffer memory and long-term memory (column 3, lines 23-30).

Regarding claim 6, Inoue also discloses releasing said established buffer memory from recording the first program, and making its memory space available to part of another buffer memory if needed at any time including after the first program has been recorded (column 2, lines 8-12).

Regarding claim 7, Inoue also discloses releasing said established buffer memory from recording the first program, and making its memory space available to part of another buffer memory if needed at any time including when a user tunes in to another program (column 2, lines 8-12).

Art Unit: 2621

Regarding claim 8, Inoue also discloses releasing said established buffer memory from recording the first program, and making its memory space available to part of another buffer memory if needed at any time including when a user directs that recording be halted (column 2, lines 8-12).

Claim 9 is rejected for the same reason as discussed in claim 1 above in further consideration of Inoue also disclosing a tuner unit to receive a first program (Fig. 2).

Claim 10 is rejected for the same reason as discussed in claim 2 above.

Claim 11 is rejected for the same reason as discussed in claim 3 above.

Claim 12 is rejected for the same reason as discussed in claim 4 above.

Claim 14 is rejected for the same reason as discussed in claim 6 above.

Claim 15 is rejected for the same reason as discussed in claim 7 above.

Claim 16 is rejected for the same reason as discussed in claim 8 above.

Regarding claim 17, Inoue discloses a digital video recording and playback method adapted for "live-pause" recording and playback (column 2, lines 7-11), said method comprising: receiving a first program (column 2, lines 25-30); adaptively establishing a buffer memory having a size adequate to record the first program (column 7, lines 16-24; column 8, lines 15-34; Fig. 4; column 8, line 65 – column 9, line 22); recording the first program in the buffer memory established in establishing step (column 6, lines 47-48); and playing back a portion of the recorded first program during a "live-pause" operation (column 2, lines 8-12).

Claim 19 is rejected for the same reason as discussed in claim 4 above.

Claim 20 is rejected for the same reason as discussed in claim 6 above.

Art Unit: 2621

Claim 21 is rejected for the same reason as discussed in claim 7 above.

Claim 22 is rejected for the same reason as discussed in claim 8 above.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 5, 13, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Inoue (US Patent 7,123,813) as applied to claims 1-4, 6-12, 14-17, and 19-22 above, and further in view of Young (US Patent 5,991,498).

Regarding claim 5, see the teachings of Inoue as discussed in claim 1 above. Furthermore, Inoue also discloses one of the buffers used can be tapes in VCR devices (Fig. 1; column 3, lines 23-30). However, Inoue does not disclose if the first program is of indefinite length, said program length information comprises as a default, a fixed length.

Young discloses a method for recording, comprising a step of, if program is of indefinite length, said program length information comprises as a default, a fixed length, which is the length of the tape (column 10, lines 14-16).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the step of assigning a default, a fixed length as disclosed by Young into the method disclosed by Inoue to automatically set up a limitation of recording time for those programs that do not have a specified length. The

Art Unit: 2621

0004

incorporated feature would enhance the user interface of the method because it provides an automatic mechanism to handle the programs with indefinite length without user's intervention.

Claim 13 is rejected for the same reason as discussed in claim 5 above.

Regarding claim 18, see the teachings of Inoue as discussed in claim 17 above.

However, Inoue does not disclose the size of said buffer memory is set to one of a plurality of fixed sizes to match an estimated size of the first program.

Young discloses the duration of recording (which corresponds to a size of the buffer memory) is set to one of a plurality of fixed periods (which corresponds to one of plurality of fixed sizes of memory) to match an estimated length of the first program (which corresponds to an estimated size of the program) (column 8, lines 10-55; Fig. 4).

One of ordinary skill in the art at the time the invention was made would have been motivated to incorporate the memory-size (or time length) estimating step disclosed by Young into the method disclosed by Inoue to round up the time length or memory size to conventional broadcast start time and end time (which is usually presented in units of 15 minutes). Such doing would save hardware resources because storage of unnecessary extra bits is not needed.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Q. Dang whose telephone number is 571-270-1116. The examiner can normally be reached on M-Th:7:30-6:00.

Art Unit: 2621

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thai Tran can be reached on 571-272-7382. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jeht Examiner Center 2600

Hung Dang
Patent Examiner